

DECLARATION AND POWER OF ATTORNEY
FOR ORIGINAL U.S. PATENT APPLICATION

Attorney's Docket No. NVIDIA008/P000

COPY

As a below-named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: A TRANSFORM, LIGHTING AND RASTERIZATION SYSTEM EMBODIED ON A SINGLE SEMICONDUCTOR PLATFORM, the specification of which,

- (check one)
1. ☒ is attached hereto.
 2. ☐ was filed on _____ as
U.S. Application Serial No. _____
and was amended on _____.
 3. ☐ was filed on _____ as
International PCT Application Serial No. _____
and was amended on _____.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, CFR § 1.56.

I hereby claim foreign priority benefits under Title 35, United States code, § 119(a)-(d) or § 365(b) of any foreign application for patent or inventor's certificate, or § 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)			Priority Benefits Claimed?
_____ (Appl. No.)	_____ (Country)	_____ (Filing Date)	<input type="checkbox"/> Yes <input type="checkbox"/> No
_____ (Appl. No.)	_____ (Country)	_____ (Filing Date)	<input type="checkbox"/> Yes <input type="checkbox"/> No
_____ (Appl. No.)	_____ (Country)	_____ (Filing Date)	<input type="checkbox"/> Yes <input type="checkbox"/> No

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

_____ (Application Serial No.)	_____ (Filing Date)
_____ (Application Serial No.)	_____ (Filing Date)

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s), or § 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Prior U.S. Application(s)

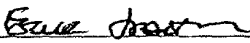
(Application Serial No.)	(Filing Date)	(Status - patented, pending, abandoned)

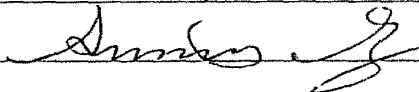
And I hereby appoint the law firm of Hickman Stephens & Coleman, including Paul L. Hickman (Reg. No. 28,516); L. Ke Stephens (Reg. No. 32,632); Brian R. Coleman (Reg. No. 39,145); Michael E. Melton (Reg. No. 32,276); Kevin J. Zil (Reg. No. 41,429); Dominic Kotab (Reg. No. 42,762); Raymond E. Roberts (Reg. No. 38,597); Vidya R. Bhakar (Reg. No. 42,323); Douglas E. Mackenzie (Reg. No. 38,955); Michael D. Plimier (Reg. No. 43,004); Robert D. Hayden (Reg. No. 42,645); Stephen H. Pettigrew (Reg. No. 35,978) and Paul D. Carmichael (Reg. No. 18,679) as my principal attorneys prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

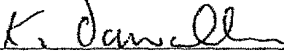
Send Correspondence To: **HICKMAN STEPHENS & COLEMAN, LLP**
P.O. BOX 52037
Palo Alto, California 94303-0746

Direct Telephone Calls To: **Kevin J. Zilka at telephone number (408) 558-9950**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information or belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Typewritten Full Name of
Sole or First Inventor: John Erik Lindholm Citizenship: CANADA
Inventor's signature:  Date of Signature: Dec 1, 99
Residence: (City) Cupertino (State/Country) California/USA
Post Office Address: 10325 Virginia Swan Place, Cupertino, California 95014

Full Name of Second Joint
Inventor (if any): Simon Moy Citizenship: USA
Inventor's signature:  Date of Signature: 12/2/99
Residence: (City) Mountain View (State/Country) California/USA
Post Office Address: 100 Freedom Lane, Mountain View, California 94040

Full Name of Third Joint
Inventor (if any): Kevin Dawallu Citizenship: Germany
Inventor's signature:  Date of Signature: Dec 2, 99
Residence: (City) Sunnyvale (State/Country) California/USA
Post Office Address: 1030 E. El Camino Real, PMB447, Sunnyvale, California 94087

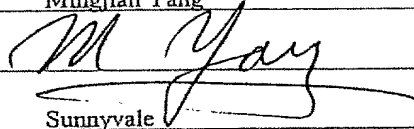
40005560

Full Name of Fourth Joint
Inventor (if any):

Mingjian Yang

Citizenship: P.R. China

Inventor's signature:



Date of Signature: 12/12/99

Residence: (City)

Sunnyvale

(State/Country) California/USA

Post Office Address:

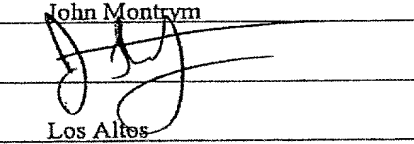
1120 W. Olive Avenue, #204, Sunnyvale, California 94085

Full Name of Fifth Joint
Inventor (if any):

John Montrom

Citizenship: USA

Inventor's signature:



Date of Signature: 12-2-99

Residence: (City)

Los Altos

(State/Country) California/USA

Post Office Address:

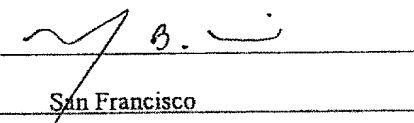
1429 Miravalle Avenue, Los Altos, California 94024

Full Name of Sixth Joint
Inventor (if any):

David B. Kirk

Citizenship: USA

Inventor's signature:



Date of Signature: 12/1/99

Residence: (City)

San Francisco

(State/Country) California/USA

Post Office Address:

2965 Broderick Street, San Francisco, California 94123

Full Name of Seventh Joint
Inventor (if any):

Paolo E. Sabella

Citizenship: USA

Inventor's signature:



Date of Signature: 12/1/99

Residence: (City)

Pleasanton

(State/Country) California/USA

Post Office Address:

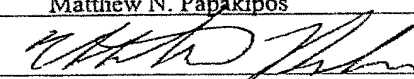
3457 Cumberland Gap Court, Pleasanton, California 94588

Full Name of Eighth Joint
Inventor (if any):

Matthew N. Papakipos

Citizenship: USA

Inventor's signature:



Date of Signature: 12/1/99

Residence: (City)

Palo Alto

(State/Country) California/USA

Post Office Address:

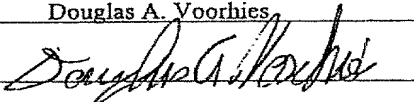
2129 Edgewood Drive, Palo Alto, California 94303

Full Name of Ninth Joint
Inventor (if any):

Douglas A. Voorhies

Citizenship: USA

Inventor's signature:



Date of Signature: 12/1/99

Residence: (City)

Menlo Park

(State/Country) California/USA

Post Office Address:

1355 Hillview Drive, Menlo Park, California 94025

Post Office Address:

251 View Street, Mountain View, California 94041

(State/Country)

California/USA

Parameter	Value	Unit
Initial concentration of H_2O_2	0.01	M
Initial concentration of Fe^{2+}	0.001	M
Initial concentration of H^+	0.1	M
Temperature	25	$^\circ\text{C}$
Reaction time	0-100	min
Reaction rate constant k	0.001	min^{-1}
Reaction order	1	
Half-life $t_{1/2}$	100	min
Activation energy E_a	100	kJ mol^{-1}
Pre-exponential factor A	1000	min^{-1}
Reaction mechanism	Free radical chain reaction	
Reaction products	Fe^{3+} , H_2O , O_2	
Reaction conditions	Dark, sealed, stirred	
Reaction medium	Aqueous solution	
Reaction vessel	Stainless steel reactor	
Reaction temperature range	20-30	$^\circ\text{C}$
Reaction pressure range	1-2	atm
Reaction pH range	0-1	
Reaction concentration range	0.001-0.01	M
Reaction time range	0-100	min
Reaction rate range	0.001-0.01	min^{-1}
Reaction order range	1	
Reaction mechanism range	Free radical chain reaction	
Reaction products range	Fe^{3+} , H_2O , O_2	
Reaction conditions range	Dark, sealed, stirred	
Reaction medium range	Aqueous solution	
Reaction vessel range	Stainless steel reactor	
Reaction temperature range	20-30	$^\circ\text{C}$
Reaction pressure range	1-2	atm
Reaction pH range	0-1	
Reaction concentration range	0.001-0.01	M
Reaction time range	0-100	min
Reaction rate range	0.001-0.01	min^{-1}
Reaction order range	1	
Reaction mechanism range	Free radical chain reaction	
Reaction products range	Fe^{3+} , H_2O , O_2	
Reaction conditions range	Dark, sealed, stirred	
Reaction medium range	Aqueous solution	
Reaction vessel range	Stainless steel reactor	
Reaction temperature range	20-30	$^\circ\text{C}$
Reaction pressure range	1-2	atm
Reaction pH range	0-1	
Reaction concentration range	0.001-0.01	M
Reaction time range	0-100	min
Reaction rate range	0.001-0.01	min^{-1}
Reaction order range	1	
Reaction mechanism range	Free radical chain reaction	
Reaction products range	Fe^{3+} , H_2O , O_2	
Reaction conditions range	Dark, sealed, stirred	
Reaction medium range	Aqueous solution	
Reaction vessel range	Stainless steel reactor	
Reaction temperature range	20-30	$^\circ\text{C}$
Reaction pressure range	1-2	atm
Reaction pH range	0-1	
Reaction concentration range	0.001-0.01	M
Reaction time range	0-100	min
Reaction rate range	0.001-0.01	min^{-1}
Reaction order range	1	
Reaction mechanism range	Free radical chain reaction	
Reaction products range	Fe^{3+} , H_2O , O_2	
Reaction conditions range	Dark, sealed, stirred	
Reaction medium range	Aqueous solution	
Reaction vessel range	Stainless steel reactor	
Reaction temperature range	20-30	$^\circ\text{C}$
Reaction pressure range	1-2	atm
Reaction pH range	0-1	
Reaction concentration range	0.001-0.01	M
Reaction time range	0-100	min
Reaction rate range	0.001-0.01	min^{-1}
Reaction order range	1	
Reaction mechanism range	Free radical chain reaction	
Reaction products range	Fe^{3+} , H_2O , O_2	
Reaction conditions range	Dark, sealed, stirred	
Reaction medium range	Aqueous solution	
Reaction vessel range	Stainless steel reactor	
Reaction temperature range	20-30	$^\circ\text{C}$
Reaction pressure range	1-2	atm
Reaction pH range	0-1	
Reaction concentration range	0.001-0.01	M
Reaction time range	0-100	min
Reaction rate range	0.001-0.01	min^{-1}
Reaction order range	1	
Reaction mechanism range	Free radical chain reaction	
Reaction products range	Fe^{3+} , H_2O , O_2	
Reaction conditions range	Dark, sealed, stirred	
Reaction medium range	Aqueous solution	
Reaction vessel range	Stainless steel reactor	
Reaction temperature range	20-30	$^\circ\text{C}$
Reaction pressure range	1-2	atm
Reaction pH range	0-1	
Reaction concentration range	0.001-0.01	M
Reaction time range	0-100	min
Reaction rate range	0.001-0.01	min^{-1}
Reaction order range	1	
Reaction mechanism range	Free radical chain reaction	
Reaction products range	Fe^{3+} , H_2O , O_2	
Reaction conditions range	Dark, sealed, stirred	
Reaction medium range	Aqueous solution	
Reaction vessel range	Stainless steel reactor	
Reaction temperature range	20-30	$^\circ\text{C}$
Reaction pressure range	1-2	atm
Reaction pH range	0-1	
Reaction concentration range	0.001-0.01	M
Reaction time range	0-100	min
Reaction rate range	0.001-0.01	min^{-1}
Reaction order range	1	
Reaction mechanism range	Free radical chain reaction	
Reaction products range	Fe^{3+} , H_2O , O_2	
Reaction conditions range		